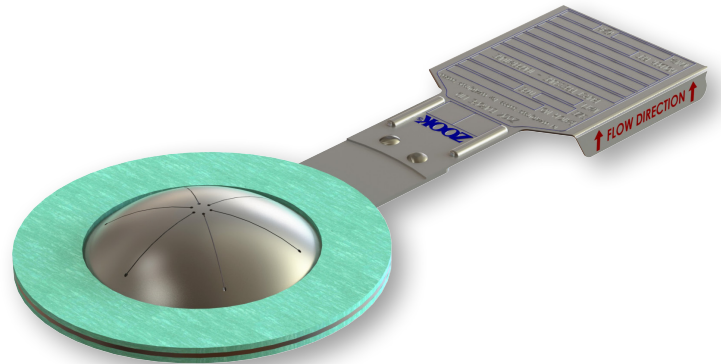


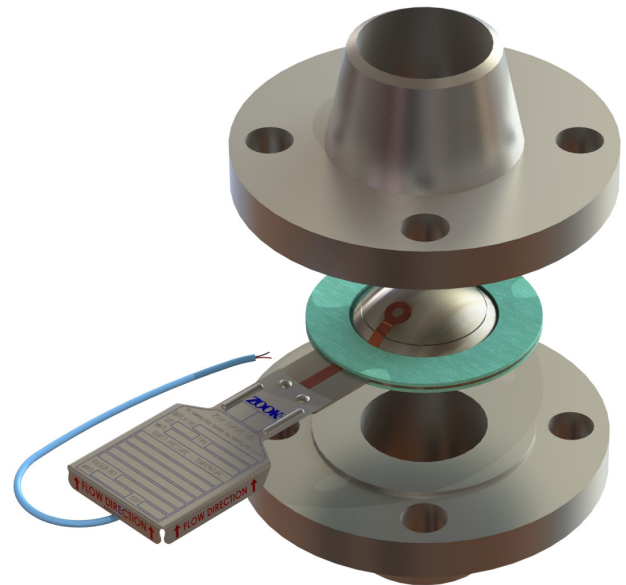
Features

- The FD Series has a slotted metal top section and allows the use of metal & Teflon seal materials. A wide variety of corrosive resistant seal materials are available
- State-of-the-art laser slotted metal burst cap
- Disk design offers high cycle life
- Operating ratios up to 85% of the low end of burst tolerance
- Excellent for liquid, gas or 2 phased flow
- Flange mounted - no holder required, c/w Compressed fiber gaskets (Other gasket materials available)
- Sizes from 1" (25 mm) to 44" (1100 mm)
- Burst ratings from 1 psig (0.07 barg) to 285 psig (19.5 barg)
- 3-dimensional stainless steel tag permanently engraved with complete disk specifications
- CE (PED), and TÜV compliance available



Options

- FD-V Vacuum Supports** are required on vacuum services. Vacuum supports are attached to the process side of the disk and allow the disk to support a full system vacuum
- FD-R Protective Rings** are recommended with FD Series disks to protect delicate materials and/or to provide stability when vacuum supports are not supplied
- FD-H Handling Supports** are attached to the process side of the disk to protect disk seals when vacuum supports are not supplied
- FD-BI** Equipped with ZOOK's Integral **Burst Indicator**



Typical Installation

Ordering Information

- Always consult the factory with your complete flange specifications to determine if tooling is available. Minimum Flange requirements: Type, Size, Pressure Rating, Standard, and I.D.
- Customer's must have flexibility in their piping to facilitate installation & removal of the rupture disk, providing sufficient clearance of the disks dome
- If the flange I.D. cannot be confirmed or the piping is rigid ZOOK can supply a reusable outlet spacer ring

FD Series Specifications

Minimum and Maximum Pressure Ratings with Teflon Seal - psig (barg) @ 72°F (22°C)

Disk Size	Minimum Burst Pressure	Maximum Burst Pressure	MNFA in ² (mm ²)		Disk Size	Minimum Burst Pressure	Maximum Burst Pressure	MNFA in ² (mm ²)		Disk Size	Minimum Burst Pressure	Maximum Burst Pressure	MNFA in ² (mm ²)		
			FD-R	FD-V				FD-R	FD-V				FD-R	FD-V	
1"	30	285	0.86	0.78	12"	2	150	113.10	101.79	34"	1	50	868.31	781.48	
25 mm	2.07	19.65	554	503	300 mm	0.14	10.34	72967	65670	850 mm	0.07	3.45	560196	504179	
1.5"	14	285	2.04	1.33	14"	1	120	137.89	124.10	36"	1	40	975.91	878.32	
40 mm	0.96	19.65	1316	858	350 mm	0.07	8.27	88961	80064	900 mm	0.07	2.76	629615	566656	
2"	10	285	3.36	3.02	16"	1	100	182.65	164.39	38"	1	40	1089.79	980.81	
50 mm	0.69	19.65	2167	1948	400 mm	0.07	6.89	117838	106057	950 mm	0.07	2.76	703088	632779	
2.5"	8	285	4.79	4.31	18"	1	80	233.71	210.33	40"	1	40	1209.95	1088.96	
65 mm	0.55	19.65	3090	2780	450 mm	0.07	5.52	150780	135696	1000 mm	0.07	2.76	780614	702553	
3"	7	285	7.39	6.65	20"	1	70	291.04	261.94	42"	1	40	1336.40	1202.76	
80 mm	0.48	19.65	4767	4290	500 mm	0.07	4.83	187767	168993	1050 mm	0.07	2.76	862194	775972	
4"	6	285	12.73	11.46	24"	1	60	424.56	382.10	44"	1	40	1469.14	1322.22	
100 mm	0.41	19.65	8212	7393	600 mm	0.07	4.14	273909	246515	1100 mm	0.07	2.76	947828	853043	
5"	6	260	19.03	19.03	26"	1	55	500.74	450.67	Max. Temp.	500°F (260°C)				
125 mm	0.41	17.93	12277	12277	650 mm	0.07	3.79	323057	290754						
6"	6	230	28.89	26.00	28"	1	50	583.21	524.89						
150 mm	0.41	15.86	18638	16774	700 mm	0.07	3.45	376261	338638						
8"	5	200	50.03	45.02	30"	1	50	671.96	604.76						
200 mm	0.34	13.79	32277	29045	750 mm	0.07	3.45	433519	390166						
10"	2	175	78.85	70.97	32"	1	50	766.99	690.29						
250 mm	0.14	12.07	50870	45787	800 mm	0.07	3.45	494831	445347						
Max. Temp.	500°F (260°C)				Max. Temp.	500°F (260°C)									

Notes: • For materials, sizes, burst ratings and temperatures not shown, contact ZOOK
 • Maximum temperature rating for rupture disk equipped with BI is 400°F (204°C)

Table Tolerance

Table Tolerance - ZOOK										Table Tolerance - PED						
Burst Pressure Range (psig)		ZOOK Manufacturing Design Range (psig)								Burst Tolerance	Burst Pressure Range (barg)		Total Performance Tolerance			
		Standard		Reduced Tolerance				Standard	Reduced Tolerance							
		Minimum	Maximum	Minus	Plus	Minus	Plus		Minus		Plus	Minus	Plus	Minimum	Maximum	Good
Min	<1.0	0	0.3	0.00	0.15	0.00	0.08	0.00	0.00	± 0.25 psig	Min	<0.069	±75%	±73%	±70%	±0.017 barg
1.0	<2.5	0.5	0.5	0.25	0.25	0.13	0.13	0.00	0.00	± 0.33 psig	0.069	<0.172	±65%	±45%	±35%	±0.023 barg
2.5	<4.0	1	1	0.50	0.50	0.25	0.25	0.00	0.00	± 0.5 psig	0.172	<0.276	±50%	±30%	±20%	±0.035 barg
4.0	<7.0	1	2	0.50	1.00	0.25	0.50	0.00	0.00	± 0.5 psig	0.276	<0.483	±50%	±30%	±20%	±0.035 barg
7.0	<11.0	1.5	2.5	0.75	1.25	0.38	0.63	0.00	0.00	± 0.8 psig	0.483	<0.759	±50%	±30%	±20%	±0.055 barg
11.0	<15.0	2	3	1.00	1.50	0.50	0.75	0.00	0.00	± 1.3 psig	0.759	<1.034	±25%	±20%	±15%	±0.090 barg
15.0	<17	2	3	1.00	1.50	0.50	0.75	0.00	0.00	± 2.0 psig	1.034	<1.172	±25%	±20%	±15%	±0.138 barg
17	<26	2	4	1.00	2.00	0.50	1.00	0.00	0.00	± 2.0 psig	1.172	<1.793	±25%	±20%	±15%	±0.138 barg
26	<40	3	5	1.50	2.50	0.75	1.25	0.00	0.00	± 2.0 psig	1.793	<2.758	±20%	±15%	±10%	±0.138 barg
40	<66	4	6	2.00	3.00	1.00	1.50	0.00	0.00	± 5%	2.758	<4.552	±15%	±10%	±7.5%	±5%
66	<101	5	9	2.50	4.50	1.25	2.25	0.00	0.00	± 5%	4.552	<6.966	±15%	±10%	±7.5%	±5%
101	<151	6	12	3.00	6.00	1.50	3.00	0.00	0.00	± 5%	6.966	<10.412	±10%	±7.5%	±6.5%	±5%
151	<201	9	16	4.50	8.00	2.25	4.00	0.00	0.00	± 5%	10.412	<13.859	±10%	±7.5%	±6.5%	±5%
201	<351	12	23	6.00	11.50	3.00	5.75	0.00	0.00	± 5%	13.859	<24.201	±10%	±7.5%	±6.5%	±5%
351	<500	15	30	7.50	15.00	3.75	7.50	0.00	0.00	± 5%	24.201	<34.474	±10%	±7.5%	±6.5%	±5%
500	Max	3%	6%	1.5%	3.0%	0.75%	1.5%	0.00	0.00	± 5%	34.474	Max	±10%	±7.5%	±6.5%	±5%

zookdisk.com



Teflon - Trademark of The Chemours Company



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Safety through knowledge and performance.